

Abstract

The mold frame 8 is formed with a pair of collision sections 14 and 15 that are opposed to the back face of the movable iron core 4 with the movable contact support 6 therebetween. The collision section 14 has a higher height than that of the collision section 15 to provide the step S. An inclined plane 16 is also provided in the vicinity of the collision section 14 of the base bottom face abutted with the back face of the movable iron core of the movable contact support 6. When this electromagnetic contactor is attached with the higher collision section 14 provided at the lower side, the movable contact support 6 having collision in the "released" condition is rotated around the collision section 14, thereby reducing the impact. When this electromagnetic contactor is attached with the lower collision section 15 provided at the lower side on the other hand, the movable contact support 6 attracted toward the movable iron core by the plate spring 5 is allowed to collide, at the bounce of the movable contact support 6, with the back face of the movable iron core via the inclined plane 16, thereby canceling the inertia by the bounce to reduce the impact.

Fig. 1

15 Collision section

16 Inclined plane

Fig. 5

① Collision of lower collision section

② Collision of upper collision section

③ Collision of inclined plane

④ Abutting of base bottom face

⑤ Stop condition

Fig. 6

① Collision of upper collision section

② Collision of lower collision section (deformation of plate spring)

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③ Return of movable contact support

④ Collision of inclined plane

⑤ Abutting of base bottom face

⑥ Stop condition